Exhibit 3

Repeaters Operating At or Less Than 2 kW EIRP

CONFIDENTIAL NOT FOR PUBLIC INSPECTION

City	Chyabbi	Site	Site Latitude	Site Longitude	Anteina	Antemative		drahator Downiii		
Atlanta	ATL	003C	033-51-58	084-28-28	Tx1		0	0	1226	235
Atlanta	ATL	004C	033-51-07	084-22-41	Tx1	TA-2304-2-DAB(120)	09	0	879] -
Atlanta	ATL	004C	033-51-07	084-22-41	Tx2	TA-2304-2-DAB(120)	300	0	879	213
Atlanta	ATL	005B	033-45-12	084-29-55	Tx1	TA-2350-DAB	0		1026	158
Atianta	ATL	006B	033-40-28	084-26-22	Tx1	TA-2350-DAB	0	:	1205	+
Atlanta	ATL	007A	033-37-21	084-29-11	Tx1	TA-2350-T6	0		1032	137
Atlanta	ATL	009A	033-55-16	084-20-06	Tx1	TA-2335-DAB-H	6	4	1407	438
Atlanta	ATL	009A	033-55-16	084-20-06	Tx2	TA-2335-DAB-H	300	4	1287	438
Atlanta	ATL	011G	033-58-36	084-32-43	Tx1	TA-2304-2-DAB(160)	0	0	1732	170
Atlanta	ATL	012B	033-55-43	084-32-59	Tx1	TA-2350-T6	0	9	1076	140
Atlanta	ATL	013A	033-55-51.9	084-14-39.9	Tx1	TA-2350-T6	0	0	633	283
Atlanta	АТС	016C	033-45-52	084-15-05	,	TA-2350-DAB	0	0	1099	140
Atlanta	АТС	023B	034-00-56.7	. 084-19-47.4	T×1	TA-2350-T6	0	0	1082	120
Atlanta	ATL	024A	033-54-07	084-28-17	Tx1	TA-2350-T6	0	0	1556	192
Atlanta	ATL	026B	033-55-24.6	084-08-14.4	Tx1	TA-2350-DAB	0	0	1048	160

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CIA CIA	cllyAbbr	Site	Site Latitude	Site Longitude Antenna	Anlenna	Antenna Typet	Orientation	TIIIUMOGI: LIOITETURIJO		
Atlanta	ATL	028C	033-43-03	084-15-19	Tx1	TA-2350-DAB	0	0	936	160
Atlanta	ATL	029D	033-52-17.5	084-11-15.5	Tx1	TA-2350-DAB	0	0	1134	124
Atlanta	ATL	030B	033-56-22	084-30-21	Tx1	TA-2350-T6	0	0	1437	158
Atlanta	ATL	032A	033-41-13	084-30-48	Tx1	TA-2350-DAB	0	0	929	324
Atlanta	ATL	042D	033-42-20.5	084-27-19.5	Tx1	TA-2350-DAB	0	0	1099	135
Atlanta	АТС	047D	033-49-06.0	084-14-39.0	Tx1	TA-2350-T6	0	0	738	250
Atlanta	ATL	049C	033-41-10.68	084-18-33.5	Tx1	TA-2350-DAB	0	0	. .	125
Atlanta	ATL	050A	033-44-15	084-18-37	Tx1	TA-2350-T6	0	0	1039	125
Atlanta	ATL	052B	033-53-02	084-15-53	Tx1	TA-2350-T6	0	0	734	250
Atlanta	ATL	054A	033-39-43	084-22-28	Tx1	TA-2350-DAB	0	0	770	
Atlanta	ATL	056A	033-42-09	084-19-48	Tx1	TA-2350-T6	0	0	892	240
Atlanta	ATL	061E	033-58-09.1	084-20-51.4	Tx1	TA-2350-DAB	0	0	910	186
Atlanta	ATL	063A	033-57-53	084-11-09	Tx1	TA-2350-T6	0	0	178	220
Atlanta	ATL	064C	033-52-16.0	084-31-27.6	Tx1	TA-2350-T6	0	9	896	
Atlanta	ATL	065A	033-44-10	084-14-02	Tx1	TA-2350-T6	0	0	854	150

City	i NA	Site	Site Latitude S	Site Longitude Anterna	Antenna	Arienna Type 3	Onleinienien		ELINE STORY	1.01
Atlanta	ATL	066A	066A 033-53-56	084-07-53	Tx1	TA-2350-DAB	0	0	1065	135
Atlanta	ATL	068A	033-55-24	084-22-51	Tx1	TA-2350-T6	0	0	696	155
Atlanta	АТГ	076A	076A 034-03-26	084-18-18	Tx1	TA-2350-T6	0	0	403	420
Atlanta	АТС	093C	093C 033-24-00	084-34-49	Tx1	TA-2350-DAB	0	0	1418	250
Atlanta	АТ.	094A	094A 033-20-27	084-31-55	Tx1	TA-2350-DAB	0	0	1016	180
Atlanta	ATL	095A	033-50-28.0	084-25-35.0	Tx1	TA-2304-2-DAB(120)	315	0	1833	103
Atlanta	ATL	525A	525A 033-54-56	084-24-15	Tx1	TA-2350-T6	0	0	1049	131

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CIV	Birmingham	Birmingham	Birmingham

AIIO	offy Abbr	Site	Site.Latitude	Site Longitude	Antenna	Antehna Type	enioniation	Crientation Downtill		
Boston	BOS	103B	042-21-48.4	071-03-55.8	Tx1	TA-2350-T6	0	0	1281	485
Boston	BOS	109B	042-22-38	071-16-08	Tx1	ТА-2335-DAВ-Н	0	0	1895	250
Boston	BOS .	109B	042-22-38	071-16-08	Tx2	ТА-2335-DAВ-Н	240	0	1895	250
Boston	BOS	110F	042-12-16	071-07-48	Tx1	TA-2350-DAB	0	0	1184	65
Boston	BOS	111D	042-18-13	071-13-05	Tx1	TA-2335-DAB-H	0	0	1111	285
Boston	BOS	1110	042-18-13	071-13-05	Tx2	ТА-2335-DAВ-Н	120	0	1111	285
Boston	BOS	111D	042-18-13	071-13-05	Tx3	ТА-2335-DAВ-Н	240	0	1111	285
Boston	BOS	112B	042-29-59	071-06-09	Tx1	TA-2350-DAB	0	0	1111	80
Boston	BOS	115A	042-34-29.9	070-52-02.6	Tx1	TA-2350-DAB	0	0	863	170
Boston	BOS	116A	042-34-23.1	070-54-24.7	Tx1	TA-2350-DAB	0	0	1222	61
Boston	BOS	118D	042-28-02	070-56-40	Tx1	TA-2304-DAB(120)	45	0	1326	190
Boston	BOS	120C	042-24-59	071-09-07	Tx1	TA-2350-DAB	0	0	1386	110
Boston	BOS	121A	042-25-52	071-05-19	Tx1	TA-2304-2-DAB(160)	0	0	1257	260
Boston	BOS	122A	042-29-21.2	071-06-59.1	Tx1	TA-2350-DAB	0	0	1184	68
Boston	BOS	123B	042-19-30.3	071-11-25.7	Tx1	TA-2350-DAB	0	0	1077	68

City	CityAbbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type. P	Orientation Downtill	Downfill		
Boston	BOS	126B	042-20-22	071-09-19	Tx1		180	0	1612	23
Boston	BOS	126B	042-20-22	071-09-19	Tx2	TA-2304-2-DAB(120)	300	0	1612	
Boston	BOS	128A	042-30-34	070-54-55	Tx1	TA-2350-DAB	0	0	1301	103
Boston	BOS	129A	042-32-58.4	070-53-03.2	Tx1	TA-2350-DAB	0	0	1011	76
Boston	BOS	132A	042-27-06	071-08-09	Tx1	TA-2350-DAB	0	0	1199	76
Boston	BOS	136A	042-30-34.4	070-51-25.5	Tx1	TA-2304-2-DAB(120)	270	0	009	145
Boston	BOS	137A	042-10-53.2	071-04-07.5	Tx1	TA-2350-DAB	0	0	1191	256
Boston	BOS	140B	042-14-49.	071-02-56.	Tx1	ТА-2335-DAВ-Н	120	0	1295	540
Boston	BOS	140B	042-14-49.	071-02-56.	Tx2	TA-2335-DAB-H	240	0	1295	540
Boston	BOS	202C	42-29-00	071-11-50	Tx1	TA-2350-DAB	0	0	1351	103
Boston	BOS	203A	042-31-57	070-59-09	Tx1	TA-2335-DAB-H	0	0	1879	200
Boston	BOS	203A	042-31-57	60-69-020	Tx2	ТА-2335-DAВ-Н	120	0	1879	200
Boston	BOS	226A	042-15-43.1	071-48-16.5	Tx1	TA-2350-DAB	0	0	1291	280
Boston	BOS	638A	042-14-40	071-07-51	Tx1	ТА-2335-DAВ-Н	0		920	120
Boston	BOS	638A	042-14-40	071-07-51	Tx2	TA-2335-DAB-H	120		920	120

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RETOTAL	920
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Oriëniation	240
Antenna Type:	TA-2335-DAB-H
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Anten	Tx3
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Sile Latitude	042-14-40
Sile	638A
s siyAbbr	BOS
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Charlotte CHA 013C 035-13-26 080-50-57.8 Tx1 TA-2350-T6 0 0 0 0 1518 135 Charlotte CHA 020B 35-10-2.6 80-50-57.8 Tx1 TA-2350-T6 0 0 0 0 1256 600 Charlotte CHA 020B 35-10-2.6 80-50-57.8 Tx1 TA-2350-T6 0 0 0 1518 135				
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CHA 003A 035-13-26 080-50-42 Tx1 TA-2350-T6 0 0 0 0 CHA 020B 35-10-2.6 80-50-57.8 Tx1 TA-2350-T6 0 0 0				i
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Single City	OllyAbbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Orientation - Downtill	EIRPINE	AGIL
Chicago	문	101A	041-52-44	087-38-10	Tx1	TA-2304-2-DAB(60)	180	6	2000	1465
Chicago	품	101A	041-52-44	087-38-10	Tx2	TA-2304-2-DAB(60)	210	2	2000	1465
Chicago	CHI	101A	041-52-44	087-38-10	Tx3	TA-2304-2-DAB(60)	270	6	1937	
Chicago	동	101A	041-52-44	087-38-10	Tx4	TA-2304-2-DAB(60)	330	5	1937	1465
Chicago	동	102G	041-52-31	087-38-01	Tx1	TA-2350-DAB	0	0	1564	152
Chicago	동	124A	041-43-16	087-44-25	Tx1	TA-2304-2-DAB(120)	120	0	1940	214
Chicago	CH	124A	124A 041-43-16	087-44-25	Tx2	TA-2304-2-DAB(120)	240	0	1940	214
Chicago	СНІ	125A	041-41-22	087-47-42	Tx1	TA-2350-DAB	0	0		
Chicago	СНІ	132B	041-57-51.2	087-45-33.6	Tx1	TA-2350-T6	0	0	1692	
Chicago	СНІ	141H	041-51-02	087-51-18	Tx1	TA-2335-DAB-H	210	0	1470	190
Chicago	СНІ	141H	041-51-02	087-51-18	Tx2	TA-2335-DAB-H	330	0	1470	190
Chicago	СНІ	210B	041-36-54	087-31-21	Tx1	ТА-2335-DAВ-Н	110	0	1640	132
Chicago	СНІ	210B	041-36-54	087-31-21	Tx2	ТА-2335-DAВ-Н	230	0	1640	132
Chicago	CHI	251E	042-02-25.7	087-54-10	Tx1	TA-2350-T6	0	0	1444	144

A STATE OF THE STA	Rollykabb	Site	Site Latitude	Stellangtude Antenna	Antenna	Antenna Type	orbatation	801.11		
Cincinnati	CIN	026B	026B 039-13-16	084-23-01	Tx1	TA-2350-DAB	0	0	1068	130
Cincinnati	CIN	034A	034A 039-02-37	084-28-53	Τ×Τ	TA-2350-T6	0	0	1100	260
Cincinnati	CIN	042E	042E 039-09-20.6	084-36-46.3 Tx1		TA-2350-T6	0	0	1100	
Cincinnati	N Ci	044A	044A 039-05-30.0	084-23-16.5 Tx1		TA-2335-DAB-H	20	4	1440	
Cincinnati	N O	044A	044A 039-05-30.0	084-23-16.5 Tx2		ТА-2335-DAВ-Н	120	4	1440	

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Sile Longitud	081-41-52.0 Tx1		081-41-52.0 Tx2	
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orientation	0	340	09
Antenna Type	TA-2350-DAB	TA-2304-2-DAB(90)	TA-2304-2-DAB(90)
	TA-2	TA-2	TA-2;
Antenna	Tx1,	Tx2	Tx1
Site Longitude	083-00-20.4 Tx1.	082-53-45.0 Tx2	083-00-3
Site Latitude	008J 039-57-53.9	019D 040-03-45.0	020F 040-06-20
Sile	008	019D	020F
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Uallas/Fort Worth	DFW	001A	001A 032-46-51	096-48-07	Tx1	TA-2350-DAB	0	2	1014	850
Dallas/Fort										
Worth	DFW	008A	008A 032-55-48	096-37-37	Tx1	TA-2335-DAB-H	70	0	1048	140

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	RANIGILIDAM YIDO	TA-2350-T6	TA-2304-2-DAB(120)	TA-2350-DAB
	/Antenna /			
	Sire Longitude	083-48-33,4 Tx1	084-14-53 Tx1	084-09-32 Tx1
	Sire Lantude	013A 039-55-28.0	014C 039-49-03	017A 039-38-43
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Site Site	001B 039-44-37	003A 039-44-47.2	006A 039-39-16.2	006A 039-39-16.2
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Antenna Type	TA-2304-DAB(120)	TA-2304-DAB(120)	
Antenna			
Sile Longitude	080-15-05 Tx2	079-54-40.4 Tx1	
Sile Latitude.	009A 036-05-24	019C 036-04-41.4	
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Greenville GRV 005B 034-51-17	0058		034-51-17		082-23-51	Tx2	ТА-2335-DAВ-Н	120	0	1430	358
Greenville GRV 005B 034-51-17	005B		034-51-17		082-23-51	Tx3	TA-2335-DAB-H	240	0	772	358
Greenville GRV 014B 034-47-52	014B 034-47-52	034-47-52			082-25-31	Tx1	TA-2350-DAB	0	0	932	163
Greenville GRV 015A 034-50-25 0	015A 034-50-25	034-50-25			082-28-13	Tx1	TA-2350-DAB	0	0	1344	235
Greenville GRV 023A 034-54-3.5 0	023A 034-54-3.5	034-54-3.5		0	082-18-50	Tx1	TA-2350-DAB	0	0	946	175
Greenville GRV 025A 034-49-38 08	025A 034-49-38	034-49-38		8	082-17-38	Tx1	TA-2350-DAB	0	0	1300	240
Greenville GRV 027B 034-47-13 08	027B 034-47-13	034-47-13		80	080-18-29	Tx1	TA-2350-DAB	0	0	. 625	156
Greenville GRV 029B 034-46-29 082	029B 034-46-29	034-46-29		86	082-23-06	Tx1	TA-2350-DAB	0	0	1074	125
GRV 030D 034-52-20	030D 034-52-20	034-52-20		08	082-21-29	Tx1	TA-2350-DAB	0	0	1008	147
Greenville GRV 032D 034-48-19 08	032D 034-48-19	034-48-19		8	082-22-54	Tx1	TA-2350-DAB	0	0	1108	123
GRV 106A 034-57-32	106A 034-57-32	034-57-32		88	081-58-42	Tx1	TA-2350-DAB	0	0	932	163
Greenville GRV 112D 034-57-06 08	112D 034-57-06	034-57-06		8	081-55-08	Tx1	TA-2350-DAB	0	0	946	220
Greenville GRV 118B 034-55-49 08	118B 034-55-49	034-55-49		ొ	081-53-22	Tx1	TA-2350-DAB	0	0	1418	190

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Antenna Type	TA-2350-T6	TA-2350-T6	TA-2350-T6	TA-2350-DAB	ТА-2335-DАВ-Н	TA-2335-DAB-H	TA-2335-DAB-H
	TA-23						
Antenne	Τ×Ι	Tx1	Tx1	Τ×	Tx1	Tx2	Tx3
Site Longitude Antenna	076-43-34.1	076-52-45.0 Tx1	076-48-14.6	076-25-44.0	076-18-34.2	076-18-34.2	076-18-34.2
Site Latitude	003C 039-57-45.8	006E 040-15-36.0	008A 040-14-38.7	011A 040-20-26.0	014A 040-02-27.7	014A 040-02-27.7	014A 040-02-27.7
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orientation (box	0	0	0	0	0	0	120	240	105
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Antenna	Tx1	TXI	Tx1	Tx1	Tx1	Tx1	Tx2	Тх3	Tx1
Site Longitude	073-12-15	072-55-29	072-48-05	073-02-43	073-33-46	073-23-26	073-23-26	073-23-26	073-04-14
Site Latitude	041-10-36	041-18-25.0	041-32-08	041-33-43	017A 041-03-09	041-07-42	032A 041-07-42	041-07-42	040A 041-13-43
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Knoxville	KNO O	001A	036-00-12	083-56-59	Tx1	TA-2350-T6	0	0	1108	435
Knoxville	KNO	002A	035-57-44	083-54-57	Tx1	TA-2350-DAB	0	0	1650	330
Knoxville	KNO	006A	006A 035-56-20	083-59-12	Tx1	TA-2350-DAB	0	0	968	170
Knoxville	KNO	008C	036-00-49	083-51-13	Tx1	TA-2350-DAB	0	0	923	165
Knoxville	KNO	009D	035-55-27	083-53-57	Tx1	TA-2350-T6	0	0	1463	197
Knoxville	KNO	011A	036-00-52.8	084-01-15.3	Tx1	TA-2350-DAB	0	0	806	155
Knoxville	KNO	012A	035-58-0	084-02-48	Tx1	TA-2350-T6	0	0	996	180
Knoxville	KNO	013E	036-02-03	083-53-54	Tx1	TA-2350-DAB	0	0	923	173
Knoxville	KNO	014A	035-54-9	084-01-0	Tx1	TA-2350-T6	0	0	894	180
Knoxville	KNO	017D	017D 035-59-29	083-59-34	Tx1	TA-2350-DAB	0	0	1098	115
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Antenna Type	TA-2350-DAB	TA-2350-DAB
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Sile	001A	002A
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Los Angeles	LAX	001B			Tx1		0	0	1264	163
Los Angeles	LAX	A600	034-09-49.8	118-03-05.9	Tx1	TA-2350-DAB	0	0	1264	43
Los Angeles	LAX	016A	034-14-25.0	118-15-53.0	Tx1	TA-2350-DAB	0	0	1264	43
Los Angeles	LAX	017B	034-08-34.2	118-15-00.1	Tx1	TA-2350-DAB	0	0	1264	108
Los Angeles	LAX	030A	034-04-27	118-28-05	Tx1	TA-2350-T6	0	0	1264	179
Los Angeles	LAX	031A	034-15-51.0	118-38-44.0	Tx1	TA-2350-DAB	0	0	1264	20
Los Angeles	LAX	033A	034-09-23.2	118-47-49.2	Tx1	TA-2350-DAB	0	0	1264	41
Los Angeles	LAX	114A	033-53-48.4	117-31-56.8	Tx1	TA-2335-DAB-H	90	2	2000	25
Los Angeles	LAX	114A	033-53-48.4	117-31-56.8	Tx2	ТА-2335-DAВ-Н	210	2	2000	25
Los Angeles	χ	118C	033-52-09.0	117-56-18.0	Tx1	TA-2350-T6	0	0	1416	56
Los Angeles	ΓĄΧ	119B	033-58-33.0	118-02-05.0	Tx1	TA-2350-T6	0	0	1264	107
Los Angeles	LAX	129A	033-51-58.9	117-46-11.5	Tx1	TA-2350-DAB	0	0	1314	47
Los Angeles	Ϋ́	130A	033-45-57	118-10-57	Tx1	TA-2350-T6	0	0	1328	255
Los Angeles	ΙĄΧ	143A	033-30-20.2	117-41-32.6	Tx1	ТА-2335-DAВ-Н	20	80	1002	39
Los Angeles	LAX	143A	033-30-20.2	117-41-32.6	Tx2	ТА-2335-DАВ-Н	140	0	1002	39

Los Angeles LAX 143A 033-30-20.2 117-41-32.6 Tx3 TA-2335-DAB-H 260 0 1002 39	The state of the s	
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Antenna Type	TA-2350-T6	TA-2304-2-DAB(90)	TA-2304-2-DAB(120)	TA-2304-DAB(90)	TA-2350-DAB	TA-2304-2-DAB(90)
Antenna	Tx1	Tx1	Tx1	Tx1	Tx1	Tx1
Site Longitude Antenna	085-75- 8056W	085-42-33.7 Tx1	085-46-30	085-49-07	084-29-54	085-35-49.9 Tx1
Site Latitude	001A 038-256667N	005A 038-14-08.4	038-13-12.3	010B 038-18-32	014A 038-02-50	512A 038-09-54.7
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Memphis	MEM	003A	003A 035-04-07	090-00-05	Tx1	TA-2350-DAB	0	0	1008	120
Memphis	MEM	900B	006B 035-12-11	089-50-19	Tx1	TA-2350-T6	0	0	1024	127
Memphis	MEM	007A	007A 035-09-28	089-44-59	T×1	TA-2350-DAB	0	0	934	140
Memphis	MEM	008A	008A 035-10-27	089-56-47	Tx1	TA-2350-T6	0		886	180

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WASA SITE SITE	IIA 021A 26-06-2	IIA 021A 26-06-22
COLVABILE SITE SITE	MIA 021A 26-06-2	MIA 021A 26-06-22
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Minneapolis	MIN	001C	001C 044-58-50.8	093-16-25.6 Tx1		TA-2350-T6	0	0	1588	168
Minneapolis	MIN	002A	002A 044-58-32	093-16-18	Tx1	TA-2350-T6	0	0	1588	787
Minneapolis	MIN	012A	012A 044-56-90.6	093-05-68.8 Tx1	Tx1	TA-2304-2-DAB(120)	50	3	762	489
Minneapolis	MIN	012A	012A 044-56-90.6	093-05-68.8 Tx2		TA-2304-2-DAB(120)	170	8	C9Z	489
Minneapolis	Min	012A	012A 044-56-90.6	093-05-68.8 Tx3		TA-2304-2-DAB(120)	290	10	292	489
Minneapolis	MIN	030A	030A 045-04-35	093-05-02	Tx1	TA-2304-2-DAB(160)	0	0	1914	185

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Monterey	MON	006B	036-35-10	121-55-19	Tx1	TA-2350-T6	0	0	1257	50
Monterey	MON	8200	036-54-39.2	121-45-22.5	Tx1	TA-2335-DAB-H	40	4	1360	60
Monterey	MON	8200	007B 036-54-39.2	121-45-22.5	Tx2	TA-2335-DAB-H	160	4	1382	60
Monterey	NOW	8200	007B 036-54-39.2	121-45-22.5	Tx3	TA-2335-DAB-H	280	7	1339	09
Monterey	MON	008C	008C 036-39-53	121-38-20	Tx1	TA-2350-T6	0	0	946	140
Monterey	MON	010D	010D 036-36-1.6	121-53-42.5	Tx1	TA-2350-T6	. 0	0	1257	160
Monterey	MON	011A	011A 036-37-16	121-55-0.1	Tx1	TA-2350-T6	0	0	1218	. 60

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Nashville	NAS	002B	036-09-43.8	086-46-42.6	Tx1	TA-2350-DAB	0	0	1083	372
Nashville	NAS	015A	015A 036-13-20.6	086-41-47.9	Tx1	TA-2350-DAB	0	0	1048	145
Nashville	NAS	017B	036-06-47.1	086-47-57.9	Tx1	TA-2350-DAB	0	0	1594	100
Nashville	NAS	019A	019A 036-06-06	086-52-17	Tx1	TA-2350-DAB	0	0	1064	120
Nashville	NAS	025C	036-12-43.6	086-17-35.4	Tx1	TA-2350-DAB	0	0	1083	127
Nashville	NAS	026B	035-50-13.8	086-23-54.5	Tx1	TA-2304-2-DAB(160)	60	0	1782	200
Nashville	NAS	033C	033C 036-22-54.4	086-26-57.1	Tx1	TA-2350-DAB	0	0	1104	129

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Longitude	090-13-09.2 Tx1	090-04-7	090-04-13.2 Tx1	090-04-13.2 Tx2	090-04-13.2 Tx3
Site	060	060	060	060	60
atitude	0-21.6	9-23.4	7-06.1	7-06.1	7-06.1
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040-56-05	040-43-40	040-56-45	040-53-31	040-52-58	040-46-33.0	040-45-42	040-39-56	040-43-52	040-57-39	040-45-21	040-45-21	040-45-21	040-44-20	040-42-28	Site Latitude
074-07-05	073-51-07	073-53-10	073-51-10	073-54-40	074-02-03.0	073-49-04	073-42-20	074-03-48	073-55-23	073-59-26	073-59-26	073-59-26	073-59-07	074-00-21	Site Latitude Site Longitude Antenna
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040-45-35.7	040-43-32.4	040-45-54	040-44-49	040-43-02	040-36-44	040-53-16.8	040-52-18.4	040-51-19	040-47-15	040-44-16.5	040-44-16.5	040-40-04.8	040-56-05	040-56-05	Site Lailtude
073-58-33.9	073-59-18.1	073-59-02	073-58-38	074-00-27	073-58-08.6	074-03-14.5	074-11-45.2	073-55-38	074-15-18	074-10-03.3	074-10-03.3	073-57-36.8	074-07-05	074-07-05	Site Longitude Antenna
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073-54-50.5	073-53-49.3	074-26-22.7	074-12-51.7	074-04-23	073-46-57.2	073-55-29.5	073-56-27.7	073-42-56	074-07- 23	073-59-47.5	073-57-11	073-59-43	073-57-29	073-56-33	
Tx1 TA-2350-DAB	Tx1 TA-2350-DAB	Tx1 TA-2350-T6	Tx1 TA-2350-T6	Tx1 TA-2350-DAB	Tx1 TA-2350-DAB	Tx1 TA-2350-DAB	Tx1 TA-2350-DAB	Tx1 TA-2350-DAB	Tx1 TA-2350-DAB	Tx1 TA-2350-DAB	Tx1 TA-2350-T6	Tx1 TA-2350-T6	Tx1 TA-2350-T6	Tx1 TA-2350-T6	
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040-37-34.1	040-49-35	40-44-16.3	040-42-57.5	040-42-44.2	40-42-46	040-36-6.5	040-36-30	40-39-7	40-39-7	40-55-27	040-50-47	40-55-5.8	040-59-39	040-41-11.8	Site Latitude
074-01-38	074-13-39	73-46-58	073-46-21.7	073-50-3.4	73-52-55.5	073-56-34	074-00-20	74-00-22	74-00-22	73-51-59.5	073-50-7.4	73-54-4.8	073-40-39.2	074-18-13.5	Site Longitude Antenna
Tx1	Tx1	Tx1	Tx1	Tx1	Tx1	Tx1	T _X 1	Tx2	Tx1	Tx1	Tx1	Tx1	Tx1	Tx1	Antenna
TA-2350-DAB	TA-2350-T6	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2304-2-DAB(120)	TA-2304-2-DAB(120)	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	Antenna:Type
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040-34-46.4	040-43-49	040-37-49	040-37-36.1	040-37-36.1	040-39-53.6	040-39-53.6	40-56-6.2	40-53-29	040-46-44.8	040-41-31	040-40-25	040-37-23.3	040-34-50	40-38-13.38	Sile Latitude
074-06-27.9	074-13-10	074-18-10	074-04-28.2	074-04-28.2	074-06-33.6	074-06-33.6	73-59-44.7	74-00-16	073-46-52	073-51-5.9	073-55-34	073-56-12	073-57-24	073-58-20	Site Longitude Antenna
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TA-2350-DAB	TA-2350-DAB	TA-2350-T6	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	Antenna Type
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225B	223B	222C	221D	219C	218B	214B	212A	210A	209A	208A	206В	205A	202D	200A	Site
040-42-04.2	040-45-31	040-46-0.3	040-41-10.6	040-54-39	040-49-34	040-38-17.8	040-39-40	040-52-04	040-53-57	040-54-59.6	040-55-31	040-52-45	040-54-43.1	040-57-06.8	Site Latitude
073-53-47.3	073-52-45.8	073-54-21	074-00-5.3	073-52-52	073-53-22	074-10-17	074-22-44.6	074-00-04	074-10-13	074-11-34.9	073-50-12.5	073-53-12	073-49-01.6	073-49-05.3	Site Longitude
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TA-2350-DAB	TA-2350-T6	TA-2350-T6	TA-2304-2-DAB(90)	TA-2304-2-DAB(90)	TA-2350-DAB	TA-2335-DAB-H	TA-2350-T6	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-T6	TA-2350-DAB	TA-2350-DAB	Antenna Type
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	0	0	TA-2350-DAB	Tx1	074-11-53.7	040-47-38.1	683A	NYC	New York
	0	0	TA-2350-T6	T _X 1	078-45-1.0	040-13-2.3	614B	NYC	New York
	0	210	TA-2304-2-DAB(120)	Тx3	073-58-32	040-47-22	261B	NYC	New York
	0	90	TA-2304-2-DAB(120)	Tx2	073-58-32	040-47-22	261B	NYC	New York
	0	0	TA-2304-2-DAB(90)	Τx1	073-58-32	040-47-22	261B	NYC	New York
	0	0	TA-2350-DAB	Ϋ́	073-44-36.5	040-58-51.9	259A	NYC	New York
s. *	0	0	TA-2350-DAB	Τx1	073-43-53.3	040-43-16	228C	NYC	New York
	0	0	TA-2350-DAB	Tx1	073-48-20	040-43-18.8	227A	NYC	New York
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Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	Philadelphia	©IIV.
PHI	뫔	뫔	물	물	PH PH	뫋	PH	뫈	PH	PH	PH	PH	PH	PHI	
041B	026C	017A	016C	015C	014A	012C	011A	010A	009B	007B	006A	004C	003A	001D	Sile
039-56-56	040-02-43	040-02-16	040-00-57	039-53-44	039-50-10	039-57-41	040-00-21	039-55-01	039-58-06	039-54-41	039-57-36	040-03-33	039-54-35	039-57-05	
075-07-01	075-23-28	075-01-05	075-06-38	075-24-15	075-25-27	075-17-10	075-12-48	075-21-19.7	075-03-09	075-17-22	075-14-54	075-14-21	075-04-56	075-09-38	Site Latitude Site Longitude Antenna
Tx1	Tx1	T _X 1	Tx1	Tx1	T _X 1	T _X 1	T _X 1	Tx1	Tx1	Τx1	Tx1	Tx1	Tx1	Tx1	Antenna
TA-2304-DAB(120)	TA-2304-DAB(120)	TA-2304-DAB(90)	TA-2304-DAB(120)	TA-2304-DAB(120)	TA-2304-DAB(160)	TA-2304-DAB(120)	TA-2350-DAB	TA-2304-DAB(120)	TA-2304-DAB(120)	TA-2304-DAB(120)	TA-2350-DAB	TA-2304-DAB(90)	TA-2304-DAB(160)	TA-2350-T6	Antenna Type
135	270	45	30	250	235	240	0	235	60	225	0	280	135	0	Orientation (Japaninilla
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240	215	250	225	181	350	200	267	180	110	200	132	265	130	550	7. (C)

160	1506	0	135	TA-2304-DAB(120)	Tx1	075-04-04	039-51-22	065A	PHI	Philadelphia
130	1654	0	135	TA-2304-DAB(120)	Tx1	075-00-04	039-49-38	064B	PH	Philadelphia
210	1500	0	340	TA-2335-DAB-H	Tx2	075-32-50	039-47-25	061A	PH	Philadelphia
210	1500	0	220	TA-2335-DAB-H	Tx1	075-32-50	039-47-25	061A	PH H	Philadelphia
150	1166	0	225	TA-2304-DAB(160)	Tx1	075-42-17	039-41-56	059B	뫰	Philadelphia
156	1148	0	270	TA-2304-DAB(160)	Tx1	075-20-10	039-58-30	054A	PH	Philadelphia
140	1506	0	0	TA-2304-DAB(120)	Tx1	075-08-01.0	040-07-05.8	053A	뫋	Philadelphia
. 400	604	6	45	TA-2304-DAB(120)	Tx1	074-55-13	040-05-01	049A	몰	Philadelphia
210	1962	0	90	TA-2304-DAB(120)	Tx1	074-55-53	040-00-35	047A	물	Philadelphia
120	1654	0	165	TA-2304-DAB(120)	Tx1	075-09-12	039-49-33	045A	뫋	Philadelphia
198	950	0	135	TA-2304-DAB(160)	Tx1	075-00-03	039-53-15	043A	PH.	Philadelphia
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Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	AllO
PIT	PIT	PIT	PIT	PIT	PIT	PIT	PIT	PIT	PIT	Па	РІТ	PIT	PIT	PIT	報 図がなか
020A	020A	019C	016A	016A	015E	014A	014A	011C	011C	010A	006A	006A	004D	002A	Site
040-29-48	040-29-48	040-31-20	040-24-43	040-24-43	040-35-24	040-30-12.6	040-30-12.6	040-13-16	040-13-16	040-26-23	040-24-54	040-24-54	040-26-46.2	040-24-20	active of Colonia and
080-07-09	080-07-09	080-01-32	079-55-53	079-55-53	080-00-35	079-51-58.1	079-51-58.1	079-57-08	079-57-08	080-02-39	080-02-20	080-02-20	079-57-51.4	079-58-42	Site Latitude Site Longitude Antenna
Tx2	Tx1	Tx1	Tx2	Tx1	Tx2	Tx2	Tx1	Tx2	Tx1	T _X 1	Tx2	Tx1	Tx1	Tx1	Antenna
TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-T6	TA-2335-DAB-H	TA-2350-T6	TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-T6	TA-2350-T6	Antenna Type - S						
240	0	0	180	70	180	150	30	270	145	0	290	180	0	0	Toplanar
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1672	1672	978	1516	1516	1142	1527	1527	1800	1800	872	1324	1324	437	1258	
250	250	40	435	435	380	130	130	265	265	380	430	430	216	108	10

Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Pittsburgh	Cily
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055B	055B	054A	054A	046A	046A	042B	042B	039A	039A	028A	028A	021D	Site
040-23-30	040-23-30	040-26-47.70	040-26-47.70	040-24-36.6	040-24-36.6	040-23-12	040-23-12	040-32-47.5	040-32-47.5	040-28-43.0	040-28-43.0	040-26-11	Site Latitude
079-46-51.	079-46-51.	079-45-27.00	079-45-27.00	080-05-52.0	080-05-52.0	079-49-7	079-49-7	080-09-32.4	080-09-32.4	079-49-26.0	079-49-26.0	080-03-58.4	Site Longitude Antenna
Tx2	Tx1	Tx2	Tx1	Tx2	Tx1	Tx2	Tx1	Tx2	Tx1	Tx2	Tx1	Tx1	Antenna
TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-T6	w ya wa a wa ya ya wa
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	1074	0	0	TA-2350-DAB	Tx1	078-57-37	036-01-42	019B	R _A L	Raleigh
1	1089	0	0	TA-2350-DAB	T _X 1	078-54-43.9	036-02-04.8	015A	RAL	Raleigh
	1180	0	0	TA-2350-T6	Tx1	078-57-13	036-03-34	012A	RAL	Raleigh
	1256	0	0	TA-2350-T6	Tx1	078-54-08	035-59-53	010A	RAL	Raleigh
	1232	0	0	TA-2350-DAB-T6	Tx1	078-51-28	036-00-54	004A	RAL	Rateigh
	1991	0	120	TA-2304-DAB(120)	Tx1	078-38-36	035-50-45	001A	RAL	Raleigh
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30	1298	0	90	TA-2304-DAB(90)	Tx1	122-05-13.4 Tx1	037-41-32.4	159B	SFX	San Francisco
188	822	0	0	TA-2350-DAB	Tx1	120-59-53.9	037-38-02.5	073A	SFX	San Francisco
345	996	0	0	TA-2350-T6	Tx1	121-17-17	037-59-30	043A	SFX	San Francisco
35	1144	0	0	TA-2350-T6	Tx1	122-17-51	037-30-43	009C	SFX	San Francisco
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				17-5000-070	17.1	10-40-771	U3/C U4/-3U-2/	03/6	SEA	Seattle
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	760	0_	130	TA-2304-2-DAB(120)	Tx2	122-55-07.7 Tx2	036B 047-00-53	036В	SEA	Seattle
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	946	6	190	TA-2304-2-DAB(45)	Tx2	122-12-48	001B 047-58-09	001B	SEA	Seattle
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618	1056	0	0	TA-2350-DAB	Tx1	82-27-34	011A 27-56-53	011A	TAM	Tampa
10		a power in the	orenaler	Antenna Type	Antenha	Site Longitude	WAbbr Site Site Latitude Site Longitude Antenna	Site	(C)JyAbba	City V

178	1112	0	0	TA-2350-DAB	Tx1	083-33-28	505A 041-39-59	505A	TOL	Toledo
180	1178	0	0	TA-2350-DAB	Tx1	083-36-44	003C 041-36-58	003C	TOL	Toledo
420	1330	0	0	TA-2350-DAB	Tx1	083-31-49 Tx1	001A 041-39-13	001A	JO _L	Toledo
			Offenialies.	Aniema Type	Antenna	Site Longitude	Site Site Latitude Site Longitude Antenna	Sile	F@IVABB	#Gly

Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	AID.
WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	SoltyAppr
218B	218B	218B	216C	207C	204A	203B	203B	203В	202A	201A	106F	103D	102E	101A	Site
038-40-58	038-40-58	038-40-58	038-45-12	038-57-32.5	038-55-12	038-52-59.9	038-52-59.9	038-52-59.9	038-51-15	038-53-26.7	038-55-55	038-54-25.7	038-52-53	038-54-19	Site Latitude
077-14-11	077-14-11	077-14-11	077-27-42	077-25-29.2	077-13-43	077-07-05.4	077-07-05.4	077-07-05.4	077-02-56	077-04-55.5	077-02-11	077-00-24.3	077-00-59	077-03-19	Site Löngitude Antenna
Tx3	Tx2	Tx1	Tx1	Tx1	T _X 1	Tx3	Tx2	Tx1	T _X 1	T _X 1	Tx1	T _X 1	Tx1	T _X 1	Antenna
TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2304-2-DAB(160)	TA-2350-T6	TA-2350-T6	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	TA-2350-DAB	Antenna Type
240	120	0	240	0	0	240	120	0	0	0	0	0	0	0	Orientalion
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313B	312D	308C	301A	237A	237A	237A	231C	230A	230A	230A	227E	223A	221A	221A	Site
038-48-14	038-58-56.8	039-09-43.0	039-02-28.3	038-56-12	038-56-12	038-56-12	038-50-40.0	038-52-28.0	038-52-28.0	038-52-28.0	038-44-47	038-56-59	038-52-00	038-52-00	Site Latitude
076-58-50	077-05-36.3	077-13-35.0	076-59-39.5	077-15-53	077-15-53	077-15-53	077-07-02.0	077-13-24.0	077-13-24.0	077-13-24.0	077-05-59	077-21-27	077-21-55	077-21-55	Site Longitude Antenna
Tx2	Tx1	T _X 1	Tx1	Тх3	Tx2	Tx1	Tx1	Tx3	Tx2	Tx1	Tx2	Tx1	Tx2	Tx1	Amtenna
TA-2304-2-DAB(120)	TA-2350-DAB	TA-2304-DAB(120)	TA-2350-DAB	TA-2304-DAB(90)	TA-2304-DAB(90)	TA-2304-DAB(90)	ТА-2350-Т6	TA-2304-2-DAB(90)	TA-2304-2-DAB(90)	TA-2304-2-DAB(90)	TA-2335-DAB-H	TA-2350-T6	TA-2335-DAB-H	TA-2335-DAB-H	AntennaType
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WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	WDC	GilyA6b
402D	402D	402D	401B	337B	331C	329A	327A	325A	325A	325A	322D	319A	316A	314B	Site
039-19-52	039-19-52	039-19-52	039-17-24.6	039-02-28	039-08-25	039-09-22.2	039-01-39	038-57-17.0	038-57-17.0	038-57-17.0	039-00-17.3	038-53-19	038-51-38.0	038-55-46.25	Site Lätitude
076-39-29	076-39-29	076-39-29	076-36-50.0	077-03-20	076-44-56	076-51-27.3	077-08-26	077-00-17	077-00-17	077-00-17	076-58-33.1	076-54-19	076-56-59.0	076-55-25.80	Sile Longitude
Tx3	Tx2	Tx1	Tx1	Tx1	Tx1	Tx1	Tx1	ТхЗ	Tx2	Tx1	Tx1	Tx1	Tx1	Tx1	Antenna
TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-DAB	TA-2350-T6	TA-2335-DAB-H	TA-2350-T6	TA-2350-T6	TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-T6	TA-2350-T6	TA-2304-2-DAB(120)	TA-2350-DAB	Antema Type
240	120	0	0	0	270	0	0	240	120	0	0	0	160	0	oj ijajijaji Ozijajijaji
0	4	0	0	0	0	0	0	0	6	0	0	0	0	0	
1150	390	1150	894	1150	1782	1588	1262	1150	1150	1150	1552	1416	1954	980	REREMOIS!
320	110	320	420	329	168	105	187	297	297	297	272	106	224	175	ACI ACI

Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	Washington, DC	(Gily
CWDC	c WDC	c wdc	C WDC	C WDC	C WDC	C WDC	C WDC	c WDC	C WDC	GlyAbbr					
519A	519A	519A	517A	515A	510B	509A	507C	504B	503A	502A	500B	500B	434A	405A	Site
038-53-45.0	038-53-45.0	038-53-45.0	038-56-16	039-16-20.2	038-57-32.8	039-24-30	038-53-8.0	039-01-24.0	039-01-22	038-59-29	038-48-52.6	038-48-52.6	039-10-42.0	039-23-06.0	Sile Latitude
077-08-05.9	077-08-05.9	077-08-05.9	077-10-42	076-47-37.4	076-52-10.0	076-39-57	076-59-53.0	077-06-17.7	076-55-13	076-52-52	077-03-10.9	077-03-10.9	076-52-32.0	076-35-59.0	Sile Longitude
Tx3	Тх2	Tx1	Tx1	Tx1	Tx1	Tx2	Χ̈́	Tx1	Tx1	Tx1	Tx2	×1	T _X 1	T _X 1	Antenna
TA-2335-DAB-H	TA-2335-DAB-H	TA-2335-DAB-H	TA-2350-T6	TA-2350-T6	TA-2350-T6	TA-2304-DAB(45)	TA-2350-DAB	TA-2350-T6	TA-2350-T6	TA-2350-T6	TA-2335-DAB-H	TA-2335-DAB-H	ТА-2350-Т6	TA-2304-2-DAB(160)	Antenna Type
240	120	0	0	0	0	60	0	0	0	0	235	135	0	0	
6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	
1482	1482	1482	1552	1416	1234	980	1150	1384	1518	1234	1518	1518	1002	1074	ERP voial
290	290	290	144	112	135	125	84	292	222	221	167	167	163	280	

400	1074	<u>ත</u>	310	TA-2335-DAB-H	Tx3	077-03-26.0	824A 038-59-59.0 077-03-26.0 Tx3	824A	WDC	Washington, DC WDC
400	1074	6	190	TA-2335-DAB-H	Tx2	077-03-26.0	824A 038-59-59.0 077-03-26.0 Tx2	824A	WDC	Washington, DC WDC
400	1074	6	70	TA-2335-DAB-H	Χ̈́	077-03-26.0	824A 038-59-59.0 077-03-26.0 Tx1	824A	WDC	Washington, DC WDC
6		Asiowille.	Constitution	Anienna lype	Anterna	de Sité Longitude	Site Latitude	Site	ી જન્મ	elly 1

Exhibit B

Antenna Specification Sheets

2330 - 2345 MHz TA-2304-2-DAB Adjustable Sector



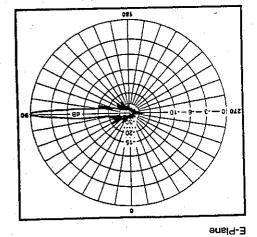
ightning protection. degrees by use of side panels. The antenna elements are at DC ground to aid in designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120 or 160 specifically designed for Digital Audio Broadcast transmission. The antenna is The TA-2304-2-DAB is a medium power vertically polarized Sectoral antenna

Mechanical Specifications

(mm 87 - 8t) .ni 0.5 - 37.0 :aqiq gnitnuoM Hor. Thrust at rated wind: 150 lb. (68 kg) Rated Wind Velocity: 125 mph (200 km/h) Weight (Incl. Clamps): 10 lb. (4.5 kg) (mm 68) .ni 2.5 :rttqsQ (mm 331) .ni 3.3 :**tibiW** Length: 40 in. (1016 mm)

Materials

Clamps: HDG steel ASA besilized VV stabilized ASA Reflector: Inidited aluminum Redisting Elements: Tin plated copper on PCB



Electrical Specifications

14 @ 120° 13 @ 160° Gain: (dBi) 18 @ 45° .06 @ SI .09 @ ZI Frequency Range: 2330-2345 MHz

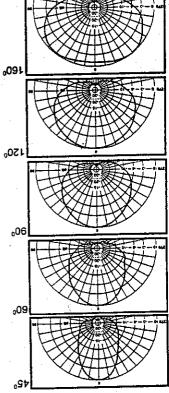
Power Rating: 200 Watts average, 800 Watts peak Polarization: Linear Vertical LtonyBack Ratio: 15 dB @ 180° ± 35° VSWR: 1.8:1 max.

Cross Pol. Discrimination: 15 dB H-Plane Beamwidth (-3 dBd): Field Adjustable 45, 60, 90, 120, 160 degrees E-Plane Beamwidth (-3 dBd): 7.5 degrees

Termination: 7/16 DIN female Impedance: 50 ohms nominal

Typical Mid band values, (For details, contact factory)

H-Plane



3330 - 2345 MHz TA-2304-DAB Adjustable Sector



lightning protection. degrees by use of side panels. The antenna elements are at DC ground to aid in designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120 or 160 specifically designed for Digital Audio Broadcast transmission. The antenna is The TA-2304-DAB is a medium power vertically polarized Sectoral antenna

Mechanical Specifications

(mm 57 - 61) .ni 0.5 - 27.0 :aqiq gnitruoM Hor. Thrust at rated wind: 79 lb. (35.8 kg) Rated Wind Velocity: 125 mph (200 km/h) Depth: 3.5 in. (89 mm) Weight (Incl. Clamps): 6 lb. (2.7 kg) (mm 691) .ni 6.9 :ntbiW Length: 21 in. (533 mm)

Redome: Gray UV stabilized ASA Reflector: Inidited aluminum Radiating Elements: Tin plated copper on PCB

Electrical Specifications

VSWR: 1.4:1 max. 12@120° 10.5@160° Gain: (dBi) 18.5 @ 45° 14 @ 60° 13 @ 90° Frequency Range: 2330-2345 MHz

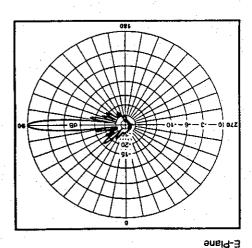
H-Piane Beamwidth (-3 dBd): Power Rating: 200 Watts everage, 800 Watts peak Polarization: Linear Vertical Front/Back Ratio: 20 dB @ 180° ± 35°

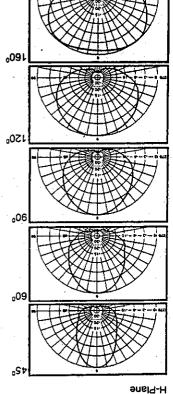
Termination: 7/16 DIN female lenimon anno 03 :sanebeqmi Cross Pol. Discrimination: 15 dB E-Plane Beamwidth (-3 dBd): 15 degrees Field Adjustable 45, 60, 90, 120, 160 degrees

Typical Mid band values. (For details, contact factory)

elsitetials

Clamps: HDG steel





I.I.veA

2330 - 2345 MHz Circular Polarized Solid Parabolic TA-2324-LHCP



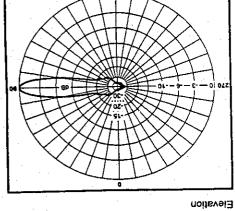
DC ground to sid in lightning protection. specifically as a receive antenna for satellite signals. The antenna elements are at The TA-2324-LHCP is a left hand circular polarized solid parabolic intended

Mechanical Specifications

(mm S01 - 8.44) .ni 0.4 - 87.1 :sqiq gnitnuoM Mechanical Tilt: Field adjustable from +25° to +60° using clamps supplied Hor. Thrust at rated wind: 127 lb. (57.6 kg) Rated Wind Velocity: 125 mph (200 km/h) Weight (Incl. Clamps): 28 lb. (12.7 kg) Diameter: 26 in. (660 mm)

Materials

Clamps: HDG steel Reflector: Painted Aluminum Radome: Gray ASA UV stabilized Radiating Elements: Tin plated copper on PCB



Electrical Specifications

Termination: 7/16 DIN female (Extended Barrel) Impedance: 50 ohms nominal 8b 3.S :oitsЯ IsixA Front to Back Ratio: 25 dB @ 180° ± 35° Elevation (-3 dB): 13.5 degrees Power Rating: 200 Watts Polarization: Left Hand Circular VSWR: 1.3:1 max. Gain: (dBic) 21 Frequency Range: 2330-2345 MHz

Typical Mid band values. (For details, contact factory)



f.f.veA

3330 - 3342 MHz High Power Sector H-8AG-255S-AT



elements are at DC ground to sid in lightning protection. shaped reflector phasing enabling multi-sector applications. The antenna also designed to provide a shaped azimuth beamwidth of 95 degrees by use of specifically designed for Digital Audio Broadcast transmission. The antenna is The TA-2335-DAB-H is a high power vertically polarized Sectoral antenna

Mechanical Specifications

(mm 87 - 81) .ni 0.£ - 87.0 :aqi¶ gnitnuoM Hor. Thrust at rated wind: 344 lb. (156 kg) Mechanical Tilt: 5 up, 10 down Rated Wind Velocity: 125 mph (200 km/h) Weight (Incl. Clamps): 33 lb. (15 kg) Depth: 8 in. (203 mm) Width: 21 in. (533 mm) Length: 38 in. (965 mm)

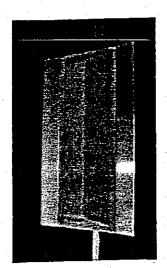
Materials

Clamps: HDG steel Radome: Gray UV stabilized ASA Reflector: Irridited aluminum Radiating Elements:Gold-plated copper on PCB

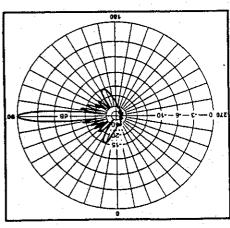
Electrical Specifications

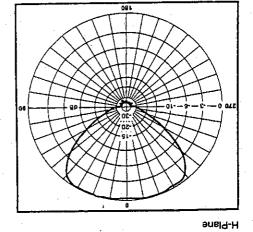
Termination: 7/16 DIM Female (extended barrel) Impedance: 50 ohms nominal Ctoss Pol. Discrimination: 20 dB F-Plane Beamwidth: 7 H-Plane Beamwidth: 95' @ -3dB, 120' @ -10dB Power Rating: 1000 Watts avg. 4000 peak Polarization: Linear Vertical Front Back Ratio: 20 d8 nim 1:4.1 :RW2V Gr (lab) :nieo Frequency Range: 2330-2345 MHz

Typical Mid band values. (For details, contact factory)



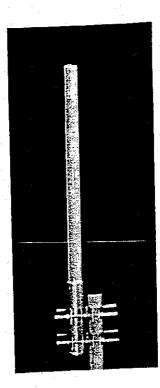
E-Plane







TA-2350-DAB Omnidirectional 2330 - 2345 MHz



The TA-2350-DAB is a medium power vertically polarized omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt and null fill. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2330-2345 MHz

Gain: (dBi) 10 VSWR: 1.4:1 max.

Polarization: Linear Vertical

Power Rating: 200 Watts average, 800 Watts peak

H-Plane Beamwidth: 360 degrees E-Plane Beamwidth: 8 degrees Electrical Downtift: 2 degrees Cross Pol. Discrimination: 20 dB min.

Null Fill: -20 dB (1# Null) Impedance: 50 ohms nominal Termination: 7/16 DIN female

Typical Mid band values. (For details, contact factory)

Mechanical Specifications

Length: 70 in. (1778 mm) Diameter: 2.25 in. (57 mm)

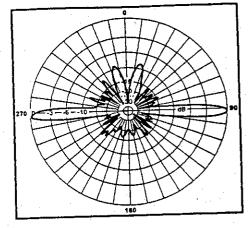
Weight (Incl. Clamps): 15 lb. (6.8 kg) Rated Wind Velocity: 125 mph (200 km/h) Hor. Thrust at rated wind: 31 lb. (14 kg) Mounting Pipe: 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Nickel plated copper array Radome: Gray UV stabilized fiberglass

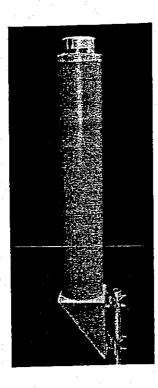
Base: Irridited Aluminum Clamps: HDG steel

E-Plane





TA-2350-DAB-H **High Power Omnidirectional** 2330 - 2345 MHz



The TA-2350-DAB-H is a high power vertically polarized omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt and null fill. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2330-2345 MHz

Gain: (dBi) 10

VSWR: 1.3:1 min.

Polarization: Linear Vertical

Power Rating: 2000 Watts avg. 8000 peak H-Plane Beamwidth: 360 degrees E-Plane Beamwidth: 8 degrees Cross Pol. Discrimination: 15 dB

Electrical Downtilt: 2 degrees Null Fill: -20 dB (1" Null) Impedance: 50 ohms nominal Termination: 7/8" EIA Flange

Typical Mid band values. (For details, contact factory)

Mechanical Specifications

Length: 64 in. (1625 mm) Diameter: 8 in. (203 mm)

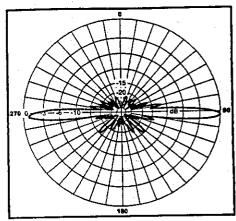
Weight (incl. Clamps): 49 ib. (22.3 kg) Rated Wind Velocity: 125 mph (200 km/h) Hor. Thrust at rated wind: 148 lb. (67 kg) Mounting Pipe: 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Tin-plated copper on PCB

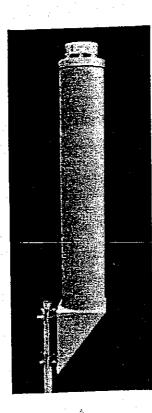
Reflector: Irridited aluminum Radome: Gray Fiberglass Clamps: HDG steel

E-Plane





TA-2355-LCC Shaped Gain Omnidirectional 2330 - 2345 MHz



The TA-2355-LCC is a medium power vertically polarized shaped gain omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt, null fill and proprietary LCC radiation pattern envelopes. The antenna elements are at DC ground to aid in lightning protection.

Electrical Specifications

Frequency Range: 2330-2345 MHz Gain: (dBl) 13 ±1 @ 0° ±50° 7 ±1 @ 180° ±120°

VSWR: 1.4:1 min.

Polarization: Linear Vertical

Power Rating: 200 Watts avg., 800 Watts peak H-Plane Beamwidth(-3 dB): 0° ±50°

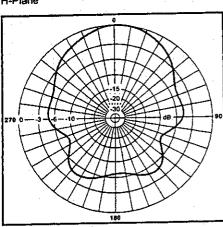
H-Plane Beamwidth(-6 dB arc): 180° ±120°

E-Plane Beamwidth(-3dB): 8 Cross Pol. Discrimination: 20 dB

Electrical Downtilt: 2° Null Fill: -20 dB (1# Null) Impedance: 50 ohms nominal Termination: 7/16 DIN Female

Typical Mid band values. (For details, contact factory)

H-Plane



Mechanical Specifications

Length: 64 in. (1625 mm) Diameter: 8 in. (203 mm) Weight (Incl. Clamps): 49 lb. (22.3 kg) Rated Wind Velocity: 125 mph (200 km/h) Hor. Thrust at rated wind: 148 lb. (67 kg) Mounting Pipe: 1.75 - 4.0 in. (44.5 - 102 mm)

Materials

Radiating Elements: Tin-plated copper on PCB

Reflector: Irridited aluminum Radome: Gray Fiberglass Clamps: HDG steel

E-Plane

